

### REMARKS

This is in response to the Office Communication mailed on December 1, 2004. The previously submitted Amendment substituted new claims 19-24 for the previously pending claims. These newly added claims are directed to a coarse-fine programming method. Claims 19-24 are respectively exact copies of claims 1-6 of U.S. patent number 6,621,742, of Yamada, issued September 16, 2003.

The Communication stated that the previously submitted Amendment failed to comply with 37 CFR §41.202(a)-(6) in that it failed to specifically apply each limitation or element of each copied claim to the disclosure to the application. Consequently, this information is being presented at this time in the following pages.

### Support for Claims

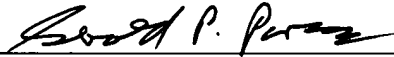
The material to which the pending claims are drawn is described most succinctly in the present application with respect to Figure 9 and its corresponding description, beginning on line 32 of page 16, although additional detail is found throughout the application. More specifically:

19. A method for programming a voltage threshold ( $V_t$ ) level of a core cell in a memory device, the method comprising steps of:  determining a desired $V_t$ for the core cell;	The method is generally presented in Figure 9 for an exemplary embodiment.  Step 414, "Latch target data $D(S_i)$ ", where $D(S_i)$ corresponds to the desired $V_t$ .
programming a portion of the $V_t$ of the core cell using a selected programming strength;	Steps 430-438, particularly step 438, where the selected programming strength is $V_{STG}(i)$ , selected in step 432..
verifying that the portion of the $V_t$ is successfully programmed;	Step 436. The "portion of the $V_t$ " is "target state $S_i$ within a Margin(Phase)".
adjusting the selected programming strength; and	Step 432 (in next phase after loop back from 460 to 420).
repeating the step of programming, verifying, and adjusting until the $V_t$ of the core cell is substantially equal to the desired $V_t$ .	The loop of steps 420-460, particular 438, 436, and 432 within each loop.
20. The method of claim 19, further comprising, after the step of verifying, a step of returning to the step of programming using the selected programming strength if it is determined that the portion of the $V_t$ was unsuccessfully programmed.	The "No" path from 436 to 438, with the loop of steps 438 and 436 comprising a pulse-verify process.

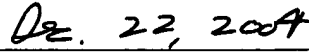
<p>21. The method of claim 20, wherein the step of adjusting is a step of weakening the selected programming strength.</p>	<p>Adjusting the Waveform according to the phase in Step 432. See also, for example, page 17, lines 1-3, or page 7, lines 24-26: "A second feature is to iterate the programming through a series of operation phases, where with each phase the programming waveform produces increasing finer programming steps."</p>
<p>22. The method of claim 20, wherein the step of adjusting is a step of weakening the selected programming strength as the <math>V_t</math> of the core cell approaches the desired <math>V_t</math>.</p>	<p>See 21. On "as <math>V_t</math> ... approaches the desired <math>V_t</math>", the second phase follows the first phase (Step 422).</p>
<p>23. The method of claim 20, wherein the step of adjusting is a step of weakening the selected programming strength after each successful step of verifying.</p>	<p>The successful verifying is the "Yes" path out of step 450, which leads to step 460 and the loop back to Step 420.</p>
<p>24. The method of claim 20, wherein the step of adjusting comprises steps of:</p> <p>using the same selected programming strength for a first selected number of programming steps; and</p>	<p>Description of step 450, page 18, lines 22-24: "If programming has passed a predetermined maximum allowed number of pulses ...".</p>
<p>weakening the programming strength for a second selected number of programming steps.</p>	<p>Step 450 is repeated in the loop of each phase.</p>
<p>Attorney Docket No.: SNDK.211US1</p>	
<p>Application No.: 10/804,770</p>	

As presented above, it is respectfully submitted that the present application supports all of the currently pending claims and an early indication of their allowability is earnestly solicited. In the meantime, a phone call to the undersigned is invited should there be any questions.

Respectfully submitted,



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Date

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